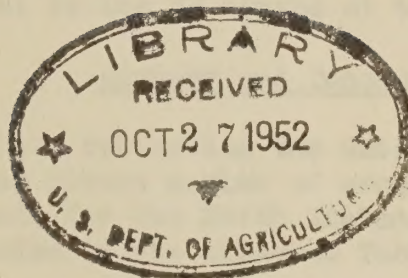


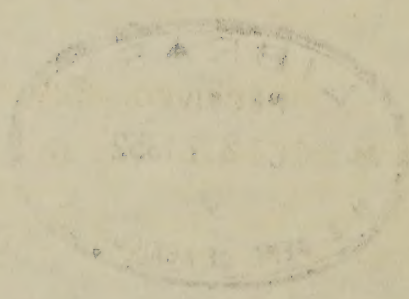
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POWER REQUIREMENT STUDY  
NORTH ALABAMA ELECTRIC COOPERATIVE

(ALABAMA 35 JACKSON)



2 XV  
U.S. RURAL ELECTRIFICATION ADMINISTRATION  
Prepared by  
Program Analyst  
Office of the Administrator  
July 1952

FOOD SECURITY ACT  
NORTH AFRICA & MIDDLE EAST  
ALGERIA



Prepared by  
Program Analyst  
Office of the Administrator  
RURAL DEVELOPMENT ADMINISTRATION  
July 1962



## POWER REQUIREMENT STUDY 1/

ALABAMA 35 JACKSONForeword

This study has been prepared by the Rural Electrification Administration for use in determining the present and estimated future power requirements of the North Alabama Electric Cooperative (Alabama 35 Jackson).

The estimates of future loads contained in the study have been arrived at from a field survey in the Cooperative's area and from basic data obtained in the Cooperative's office. The estimates of kwh consumption for farm, nonfarm and town residential consumers used herein are based upon a projection of historical trends in consumption, type of farm, income, competitive sources of energy, and other economic factors which are believed to have a bearing on the future use of electricity in this area.

The estimates of average unit kilowatt demands per consumer at peak load, corresponding to the estimated average kilowatt-hour consumption per member per month of farm, nonfarm and small commercial consumers, have been derived from the curve "Maximum Demand at Substation" accompanying Engineering Memorandum No. 94R5 of the Engineering Division, REA, dated August 21, 1950. The total number of consumers to be served in each substation area, rather than the number of consumers in a particular class, was used as a basis in arriving at the total and unit demands in order to reflect the probable overall diversity between classes of consumers in a given substation area. No adjustment for a power factor less than unity was applied, it being assumed for estimating purposes that the KVA demand as read from the curve was equal to the KW demand at the substation.

Summary and Conclusions

Pertinent information reflecting the data and conclusions arrived at regarding the present and future number of consumers, kilowatt-hour requirements, and kilowatt demands for the North Alabama Electric Cooperative (Alabama 35 Jackson) are included in the attached Tables I to IX, inclusive.

Table IX (Summary of Power Requirements) indicates that approximately 6,252 consumers will be served by the Cooperative in 1954, 6,955 in 1957, and 7,655 in 1962, at an estimated maximum demand at substation of 8,244 kilowatts in 1954, 10,653 kilowatts in 1957, and 14,208 kilowatts in 1962. Likewise, it is estimated that the Cooperative's annual energy requirements at substations will approximate 33.6 million kilowatt-hours in 1954, 43.8 million kilowatt-hours in 1957, and 58.7 million kilowatt-hours in 1962.

1/ Based on a field survey conducted by R. F. Nance and S. E. Jackson, Field Representatives, Applications and Loans Division, REA, USDA.



ALABAMA ELECTRIC COOPERATIVE

Summary

This study has been prepared by the Rural Electrification Administration for use in determining the present and estimated future power requirements of the North Alabama Electric Cooperative (Alabama 35 Jackson).

The estimates of future loads contained in this study have been arrived at from a field survey in the Cooperative's area and from basic data obtained in the Cooperative's office. The estimates of load consumption for farm, nonfarm and town residential consumers used herein are based upon a projection of historical trends in consumption, type of farm, income, composition of energy, and other economic factors which are believed to have a bearing on the future use of electricity in this area.

The estimates of average unit kilowatt demand per consumer at peak load, corresponding to the estimated average kilowatt-hour consumption per consumer per month of farm, nonfarm and small commercial consumers, have been derived from the curve "Maximum Demand at Substation" accompanying Engineering Memorandum No. 3-45 of the Engineering Division, REA, dated August 21, 1935. The total number of consumers to be served in each substation area, rather than the number of consumers in a particular class, was used as a basis in arriving at the total and unit demands in order to reflect the probable overall diversity between classes of consumers in a given substation area. No adjustment for a power factor less than unity was applied. It being assumed for estimating purposes that the KVA demand as read from the curve was equal to the KW demand at the substation.

Summary and Conclusions

Relevant information reflecting the data and conclusions arrived at regarding the present and future number of consumers, kilowatt-hour requirements, and kilowatt demands for the North Alabama Electric Cooperative (Alabama 35 Jackson) are included in the attached Tables I to IX, inclusive.

Table IX (Summary of Power Requirements) indicates that approximately 8,382 consumers will be served by the Cooperative in 1934, 8,382 in 1937, and 7,882 in 1938, at an estimated maximum demand at substation of 8,344 kilowatts in 1934, 10,233 kilowatts in 1937, and 14,308 kilowatts in 1938. Likewise, it is estimated that the Cooperative's annual energy requirements at substations will approximate 22.6 million kilowatt-hours in 1934, 43.8 million kilowatt-hours in 1937, and 58.7 million kilowatt-hours in 1938.

Based on a field survey conducted by R. E. Hanson and S. E. Jackson, Field Representatives, Applications and Loans Division, REA, USDA.

The degree of attainment of area coverage by the Cooperative, as well as the achievement of the estimated kilowatt-hour consumption foreseen in this report, are contingent on the following important considerations:

1. An adequate, dependable source of low-cost power supply.
2. Dependable, adequate electrical power to the ultimate consumer with a minimum of interruption in service and at the lowest retail rate commensurate with "pay out" considerations.
3. A fully prosecuted power use program designed to attain the goals of saturation of appliances and farm equipment reflected by the estimates included in this report.





TABLE 1

## COMPARATIVE ANNUAL OPERATING DATA ON CONSUMERS AND AVERAGE MONTHLY CONSUMPTION

## ALABAMA 35 JACKSON

YEAR	FARM			NONFARM RESIDENTIAL			SMALL COMMERCIAL			LARGE COMMERCIAL			PUBLIC LIGHTING			TOTAL		
	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.	MEMBERS NO.	AVERAGE KWH/NO. % INCR.		
1941	248	68	--	688	99	--	217	235	--	8	26,530	--	4	672	--	1,166	366	--
1942	289	72	5.9	754	100	1.0	225	235	-0-	9	28,707	8.2	5	743	10.6	1,281	311	-15.0
1943	365	76	5.6	770	110	10.0	224	205	-12.8	10	26,270	-8.5	5	691	-7.0	1,374	303	-2.6
1944	549	82	7.9	822	113	2.7	245	211	2.9	10	23,677	-9.9	5	729	5.5	1,631	268	-11.6
1945	586	90	9.8	923	118	4.4	273	209	-1.0	10	25,203	6.4	5	753	3.3	1,797	265	-1.1
1946	692	95	5.6	1,068	129	9.3	310	235	12.4	12	19,744	-21.7	5	772	2.5	2,087	249	-6.0
1947	806	102	7.4	1,181	160	24.0	348	277	17.9	12	16,270	-17.6	5	810	4.9	2,350	239	-4.0
1948	1,303	129	26.5	1,302	181	13.1	404	296	6.9	11	18,950	16.5	5	862	6.4	3,026	246	2.9
1949	2,266	128	-0.8	1,396	224	23.8	467	270	-8.8	14	12,747	-32.7	7	750	-13.0	4,150	220	-10.6
1950	2,776	138	7.8	1,667	254	13.4	515	348	28.9	11	17,352	36.1	8	649	-13.5	4,977	238	8.2
1951	2,740	164	18.8	1,975	272	7.1	531	486	39.6	16	12,622	-27.3	8	606	-6.6	5,271	289	21.4
1952*	2,676	192	--	2,198	443	--	530	680	--	16	23,929	--	8	681	--	5,428	411	--
SUM OF YEARLY % INCR.																		
(1941 - 1951)																		
AVERAGE PER YEAR																		
94.5																		
86.0																		
-50.5																		
-6.9																		
-0.7																		
-18.4																		
-1.8																		

\* FOUR MONTHS ONLY.

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952







TABLE 11

## COMPARATIVE ANNUAL OPERATING DATA ON ENERGY REQUIREMENTS

YEAR	ENERGY PURCHASED		ENERGY SOLD		ENERGY LOSSES		MAXIMUM KW DEMAND	AVERAGE COST PER KWH	TOTAL MILES ENERGIZED	TOTAL SERVICES CONNECTED	OVERALL CONSUMER DENSITY
	KWH	% INCR.	KWH	% INCR.	KWH	% LOSS					
1941	4,549,900	--	4,494,470	--	55,430	1.2	1,300	\$ .00638	126	1,233	9.79
1942	5,047,711	10.9	4,612,629	2.6	435,082	8.6	1,467	.00598	132	1,292	9.79
1943	5,329,876	5.6	4,987,504	8.1	342,372	6.4	1,465	.00583	215	1,548	7.20
1944	5,653,736	6.1	5,247,144	5.2	406,592	7.2	1,574	.00577	215	1,688	7.85
1945	6,187,740	9.4	5,719,630	9.0	468,110	7.6	1,695	.00574	224	1,944	8.68
1946	6,864,500	10.9	6,226,092	8.8	638,408	9.3	1,911	.00577	236	2,214	9.38
1947	7,635,000	11.2	6,730,761	8.1	904,239	11.8	2,099	.00582	248	2,475	9.98
1948	10,034,440	31.4	8,929,225	32.7	1,105,215	11.0	2,797	.00566	527	3,663	6.95
1949	12,534,720	24.9	10,935,204	22.5	1,599,516	12.8	3,758	.00561	721	4,629	6.42
1950	16,286,280	29.9	14,183,795	29.7	2,102,485	12.9	4,907	.00538	796	5,152	6.47
1951	20,596,882	26.5	18,291,679	29.0	2,305,203	11.2	*	.00580	838	5,383	6.42
1952 1/	9,887,324	--	8,923,932	--	963,392	9.7	*	.00499	840	5,472	6.51
SUM OF YEARLY % INCR. (1941 - 1951)		166.8		155.7		--					
AVERAGE PER YEAR		13.9		13.0		10.2					

1/ FOUR MONTHS ONLY.

\* NOT AVAILABLE.

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952

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TABLE III

## ESTIMATE OF LOADS - BRIDGEPORT SUBSTATION AREA

ALABAMA 35 JACKSON

TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM	110	155	200	80.867	106.2	135	2940	3720	4800
NONFARM (RES.)	85	105	125	11.182	14.28	17.96	4200	5160	6600
SMALL COMMERCIAL	204	216	227	22.077	22.543	23.200	7680	9480	12,000
PUBLIC BUILDINGS	5	5	5	0.131	0.174	0.257	360	480	720
TOWNS (RES.)	586	648	710	1.182	1.428	1.796	4200	5160	6600
LARGE COMMERCIAL:									
BROWNING HOSIERY MILLS	1	1	1	45/2.00F	45/2.00F	45/2.00F	2,461,200	3,943,680	4,686,000
JACOBS MANUFACTURING CO.	1	1	1	600/2.5DF	600/2.5DF	600/2.5DF	140,000	140,000	140,000
TRI-CITIES HOSPITAL	1	1	1	65/1.5DF	65/1.5DF	65/1.5DF	115,000	120,000	125,000
BRIDGEPORT LUNCH ROOM	1	1	1	30/1.25DF	30/1.25DF	30/1.25DF	21,000	22,000	22,000
BRIDGEPORT GIN CO.	1	1	1	*	*	*	7,000	7,000	7,000
BRIDGEPORT STREET LIGHTS	1	1	1	15/1.1DF	15/1.1DF	15/1.1DF	28,000	30,000	32,000
LARGE COMMERCIAL (POTENTIAL):									
TVA DORMITORY	1	1	1	300/1.5DF	300/1.5DF	300/1.5DF	440,000	440,000	440,000
SUB-TOTAL							6,961,120	8,771,160	11,464,600
PLUS DIST. LOSSES (APPROX.)							13%	12%	11%
							1,039,880	1,195,840	1,417,400
TOTAL	997	1,136	1,274	1,856	2,324	3,039	8,001,000	9,967,000	12,882,000

\* DOES NOT OPERATE AT TIME OF SYSTEM PEAK.

ANNUAL LOAD FACTOR -

49.2%

48.7%

48.4%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952





TABLE IV

## ESTIMATE OF LOADS - STEVENSON SUBSTATION AREA

ALABAMA 35 JACKSON

TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM	450	513	575	@0.855 384	@1.048 538	@1.318 758	@2940 1,223,000	@3720 1,908,360	@4800 2,760,000
NONFARM (RES.)	363	415	470	@1.166 423	@1.409 585	@1.772 833	@4200 1,524,600	@5160 2,141,400	@6600 3,102,000
SMALL COMMERCIAL	175	204	233	@2.050 359	@2.509 512	@3.158 736	@7680 1,344,000	@9430 1,933,920	@12,000 2,736,000
TOWN (RES.)	500	570	640	@1.166 583	@1.409 803	@1.772 1,134	@4200 2,100,000	@5160 2,941,200	@6600 4,224,000
LARGE COMMERCIAL: SOUTHERN RAILROAD	1	1	1	@80/1.5DF 53	@80/1.5DF 53	@80/1.5DF 53		62,000	62,000
PEOPLE'S CAFE	1	1	1	@32/1.25DF 26	@32/1.25DF 26	@32/1.25DF 26		81,000	82,000
CHICKAMAUGA CEDAR CO.	1	1	1	@65/3.0DF 22	@65/3.0DF 22	@65/3.0DF 22	225,000	225,000	225,000
TVA DORMITORY	1	1	1	@300/1.5DF 200	@300/1.5DF 200	@300/1.5DF 200	440,000	440,000	440,000
AVONDALE MILLS	1	1	1	@400/1.2DF 333	@400/1.2DF 333	@400/1.2DF 333	1,750,000	1,750,000	1,750,000
HARDWOOD PRODUCTS CO.	1	1	1	@135/3.0DF 45	@135/3.0DF 45	@135/3.0DF 45	175,000	175,000	175,000
CHICKAMAUGA CEDAR CO.	1	1	1	@140/3.0DF 47	@140/3.0DF 47	@140/3.0DF 47	115,000	115,000	115,000
LINDSAY ICE & COAL CO.	1	1	1	@45/1.5DF 30	@45/1.5DF 30	@45/1.5DF 30	90,000	90,000	90,000
SUB-TOTAL	1,496	1,710	1,926	2,505	3,194	4,217	9,228,600	11,862,880	15,821,000

NOTE: CONTINUED ON NEXT PAGE.

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - AUG. 1952





TABLE IV (CONT'D.)

## ESTIMATE OF LOADS - STEVENSON SUBSTATION AREA

ALABAMA 35 JACKSON TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KW-H REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
BROUGHT FORWARD LARGE COMMERCIAL (CONT'D.): STEVENSON HIGH SCHOOL	1,496	1,710	1,926	2,505 @27/3.0DF	3,194 @27/3.0DF	4,217 @27/3.0DF	9,228,600	11,862,880	15,821,000
STEVENSON HI. SCH. ATH. ASS'N.	1	1	1	@25/5.0DF	@25/5.0DF	@25/5.0DF	15,000	15,000	15,000
STEVENSON GIN CO.	1	1	1	*	*	*	6,000	6,000	6,000
FARMERS GIN	1	1	1	*	*	*	30,000	30,000	30,000
STEVENSON STREET LIGHTS	1	1	1	@10/1.1DF	@10/1.1DF	@10/1.1DF	15,000	15,000	15,000
SUB-TOTAL							9,309,600	11,945,880	15,907,000
PLUS DIST. LOSSES (APPROX.)							@13% 1,291,400	@12% 1,529,120	@11% 1,966,000
TOTAL	1,501	1,715	1,931	2,528	3,217	4,240	10,701,000	13,575,000	17,873,000

\* DOES NOT OPERATE AT TIME OF SYSTEM PEAK.

ANNUAL LOAD FACTOR -

48.3%

48.1%

48.1%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - AUG. 1952





TABLE V

## ESTIMATE OF LOADS - HOLLYWOOD SUBSTATION AREA

ALABAMA 35 JACKSON	TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
		1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM		475	538	600	@0.889	@1.062	@1.335	@2940	@3720	@4800
					422	571	801	1,396,500	2,001,360	2,880,000
NONFARM (RES.)		179	227	275	@1.213	@1.428	@1.796	@4200	@5160	@6600
					217	324	494	751,800	1,157,700	1,815,000
SMALL COMMERCIAL		30	44	57	@2.131	@2.543	@3.200	@7680	@9480	@12,000
					64	112	182	230,400	417,120	684,000
PUBLIC BUILDINGS		12	12	12	@0.134	@0.174	@0.257	@360	@480	@720
LARGE COMMERICAL:					2	2	3	4,320	5,760	8,640
HOLLYWOOD SCHOOL		1	1	1	@15/3.0DF	@15/3.0DF	@15/3.0DF	7,000	8,000	9,000
					5	5	5			
FOSTER GIN		1	1	1	*	*	*	8,000	8,000	8,000
PACKLER GIN CO.		1	1	1	*	*	*	29,000	29,000	29,000
CAMBELL SEED CO.		1	1	1	@50/3.0DF	@50/3.0DF	@50/3.0DF	18,000	18,000	18,000
					17	17	17			
FOSTER GRAINERY		1	1	1	@45/3.0DF	@45/3.0DF	@45/3.0DF	9,000	9,000	10,000
					15	15	15			
HOLLYWOOD STREET LIGHTS		1	1	1	@6/1.1DF	@6/1.1DF	@6/1.1DF	5,000	5,000	7,000
					5	5	5			
SUB-TOTAL								2,459,020	3,659,940	5,469,640
								@13%	@12%	@11%
PLUS DIST. LOSSES (APPROX.)								366,980	499,060	676,360
TOTAL		702	827	950	747	1,051	1,522	2,826,000	4,159,000	6,146,000

\* DOES NOT OPERATE AT TIME OF SYSTEM PEAK.

ANNUAL LOAD FACTOR =

43.2%

45.2%

46.1%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952

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TABLE VI

## ESTIMATE OF LOADS - LARKINSVILLE SUBSTATION AREA

ALABAMA 35 JACKSON	TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
		1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM		1,650	1,720	1,790	@0.855	@1.048	@1.318	@2940	@3720	@4800
NONFARM (RES.)		240	275	310	@1.166	@1.409	@1.772	@4200	@5160	@6600
SMALL COMMERCIAL		70	77	83	@2.050	@2.509	@3.158	@7680	@9480	@12,000
PUBLIC BUILDINGS		30	30	30	@0.129	@0.172	@0.253	@360	@480	@720
LARGE COMMERCIAL:										
ALABAMA ROCK CRUSHER		1	1	1	@15/4.0DF	@15/4.0DF	@15/4.0DF	3,300	3,300	3,300
LAKE SHORE HOTEL COURT		1	1	1	@40/3.0DF	@40/3.0DF	@40/3.0DF	50,000	52,000	55,000
CHAIR FACTORY		1	1	1	@30/2.0DF	@30/2.0DF	@30/2.0DF	56,000	56,000	56,000
(S. A. EDWARDS)		1	1	1	15	15	15			
GENERAL NEWSPAPER, INC.		1	1	1	@35/1.5DF	@35/1.5DF	@35/1.5DF	38,000	40,000	45,000
PUBLIC WELFARE FOUNDATION		1	1	1	@28/1.5DF	@28/1.5DF	@28/1.5DF	47,000	48,000	50,000
PLAYGROUND OF THE SOUTH		1	1	1	@33/1.5DF	@33/1.5DF	@33/1.5DF	55,000	56,000	58,000
GRIST MILL (CAMPBELL)		1	1	1	*	*	*	1,000	1,000	1,000
GRAINERY (R. JOHNSON)		1	1	1	@65/4.0DF	@65/4.0DF	@65/4.0DF	32,000	33,000	35,000
CHAIR MFG. (J. S. O'NEAL)		1	1	1	@100/4.0DF	@100/4.0DF	@100/4.0DF	30,000	30,000	30,000
SUB-TOTAL		1,999	2,111	2,222	1,974	2,525	3,315	6,719,700	8,881,060	11,988,900

\* NOT INCLUDED.

NOTE: CONTINUED ON NEXT PAGE.

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - AUG. 1952





TABLE VI (CONT'D.)

## ESTIMATE OF LOADS - LARKINSVILLE SUBSTATION AREA

FLORIDA 35 JACKSON	TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KW-H REQUIREMENTS		
		1954	1957	1962	1954	1957	1962	1954	1957	1962
	BROUGHT FORWARD									
	LARGE COMMERCIAL (CONT'D.):									
	GRANT & EDMONDS GRAINERY	1,999	2,111	2,222	1,974 @25/3.0DF	2,525 @25/3.0DF	3,315 @25/3.0DF	6,719,700	8,881,060	11,988,900
	TROUP & BURKS GRAINERY	1	1	1	8 @38/3.0DF	8 @38/3.0DF	8 @38/3.0DF	6,000	6,000	7,000
	WOODVILLE HIGH SCHOOL	1	1	1	13 @34/3.0DF	13 @34/3.0DF	13 @34/3.0DF	6,000	7,000	8,000
	PAINT ROCK ST. LIGHTS	1	1	1	11 @5/1.1DF	11 @5/1.1DF	11 @5/1.1DF	12,000	13,000	15,000
	WOODVILLE ST. LIGHTS	1	1	1	5 @6/1.1DF	5 @6/1.1DF	5 @6/1.1DF	4,400	4,500	4,600
	SUB-TOTAL							5,000	5,200	5,500
	PLUS DIST. LOSSES (APPROX.)							6,753,100 @13%	8,916,760 @12%	12,029,000 @11%
	TOTAL	2,004	2,116	2,227	2,017	2,568	3,358	1,008,900	1,216,240	1,487,000
								7,762,000	10,133,000	13,516,000

ANNUAL LOAD FACTOR -

43.9%

45.0%

45.9%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - AUG. 1952





TABLE VII

ESTIMATE OF LOADS - Y-LOAD SUBSTATION AREA  
(POTENTIAL)

ALABAMA 35 JACKSON	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
TYPE OF CONSUMER									
FARM	725	780	835	@0.867 629	@1.062 828	@1.335 1,115	@2940 2,131,500	@3720 2,901,600	@4800 4,008,000
NONFARM (RES.)	260	303	345	@1.182 307	@1.428 433	@1.796 620	@4200 1,092,000	@5160 1,545,300	@6600 2,277,000
SMALL COMMERCIAL	50	65	80	@2.077 104	@2.543 165	@3.200 256	@7680 384,000	@9480 616,200	@12,000 960,000
PUBLIC BUILDINGS	9	9	9	@0.131 1	@0.174 2	@0.257 3	@360 3,240	@480 4,320	@720 6,480
LARGE COMMERCIAL:									
LARKINSVILLE GIN	1	1	1	*	*	*	24,000	24,000	24,000
WOODVILLE GIN	1	1	1	*	*	*	11,000	11,000	11,000
LARGE COMMERCIAL (POTENTIAL):									
COAL MINE	1	1	1	@15/3.0DF 5	@15/3.0DF 5	@15/3.0DF 5	15,000	15,000	15,000
SAW MILL	1	1	1	@150/3.0DF 50	@150/3.0DF 50	@150/3.0DF 50	150,000	150,000	150,000
SUB-TOTAL							3,810,740	5,267,420	7,451,480
PLUS DIST. LOSSES (APPROX.)							@13% 569,260	@12% 718,580	@11% 920,520
TOTAL	1,048	1,161	1,273	1,096	1,483	2,049	4,380,000	5,986,000	8,372,000

\* DOES NOT OPERATE AT TIME SYSTEM PEAK OCCURS.

ANNUAL LOAD FACTOR -

45.6%

46.1%

46.6%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952





TABLE VIII

ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS  
(BY CLASSIFICATION OF CONSUMERS)

ALABAMA 35 JACKSON	TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
		1954	1957	1962	1954	1957	1962	1954	1957	1962
	FARM	3,410	3,706	4,000	2,940	3,905	5,300	10,025,400	13,786,320	19,200,000
	NONFARM (RES.)	1,127	1,325	1,525	1,327	1,879	2,721	4,733,400	6,804,200	10,065,000
	SMALL COMMERCIAL	529	606	680	1,094	1,531	2,162	4,062,720	5,744,800	8,160,000
	PUBLIC BUILDINGS	56	56	56	8	11	17	20,160	26,880	40,320
	TOWNS (RES.)	1,086	1,218	1,350	1,276	1,728	2,409	4,561,200	6,284,880	8,910,000
	LARGE COMMERCIAL (EXISTING)	41	41	41	1,344	1,344	1,344	5,096,700	5,308,000	5,341,400
	LARGE COMMERCIAL (POTENTIAL)	3	3	3	255	255	255	605,000	605,000	605,000
SUB-TOTAL								29,293,580	38,561,160	52,321,720
PLUS DIST. LOSSES (APPROX.)								4,376,420	5,258,840	6,467,280
TOTAL		6,252	6,955	7,655	8,244	10,653	14,208	33,670,000	43,820,000	58,789,000

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952





TABLE IX

ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS  
(BY SUBSTATIONS)

ALABAMA 35 JACKSON SUBSTATIONS AREAS	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
BRIDGEPORT	997	1,136	1,274	1,856	2,334	3,039	8,001,000	9,967,000	12,882,000
STEVENSON	1,501	1,715	1,931	2,528	3,217	4,240	10,701,000	13,575,000	17,873,000
HOLLYWOOD	702	827	950	747	1,051	1,522	2,826,000	4,159,000	6,146,000
LARKINSVILLE	2,004	2,116	2,227	2,017	2,568	3,358	7,762,000	10,133,000	13,516,000
Y-LOAD (POTENTIAL)	1,048	1,161	1,273	1,096	1,483	2,049	4,380,000	5,986,000	8,372,000
TOTAL	6,252	6,955	7,655	8,244	10,653	14,208	33,670,000	43,820,000	58,789,000
ANNUAL LOAD FACTOR -							46.6%	47.0%	47.2%

PROGRAM ANALYST, OFFICE OF THE  
ADMINISTRATOR, REA - JULY 1952

